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In re Application of		
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239978		900494
Group Art Unit	Examiner	

Paper No. \_

Assistant Commissioner for Patents Washington, DC 20231

I hereby request access under 37 CFR 1.14(a)(3)(iv) to the a identified ABANDONED application, which is: (CHECK ONE	application file record of the above-
(A) referred to in United States Patent Number 59	529762 <u></u> , column
(B) referred to in an application that is open to public ins  Application No	pection as set forth in 37 CFR 1.11, i.e., on page of
(C) an application that claims the benefit of the filing dark inspection, i.e., Application No.	te of an application that is open to public ନାଧ୍ୟ, ମାଧ୍ୟ
(D) an application in which the applicant has filed an au application to the public.	thortzation to lay open the complete
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## United States Patent [19]

Breed et al.

[11] Patent Number:

5,829,782

Date of Patent: [45]

Nov. 3, 1998

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[54]	VEHICLE INTERIOR IDENTIFICATION AND MONITORING SYSTEM	5,330,226 5,398,185 5,413,378
[75]	Inventors: David S. Breed, Boonton Township, N.J.; Wendell C. Johnson, Topanga, Calif.; Wilbur E. Duvall, Kimberling,	5,446,661 5,482,314 F(
[73]	Assignee: Automotive Technologies International, Inc., Boonton Township N.J.	40 23 109 3-533 94/22693 Primary Exam Attorney, Age
[21] [22]	Appl. No.: 640,068  Filed: Apr. 30, 1996	[57] This inventio
[63]	Related U.S. Application Data  Continuation of Ser. No. 239,978, May 9, 1994, abandone	and/or parts vehicle, such
[OJ]	which is a continuation-in-part of Ser. No. 40,978, Mar. 3	

	1993, abandoned.	
[51]	Int. Cl. <sup>6</sup>	B60R 21/32
[52]	U.S. Cl 280/735; 1	80/272; 342/72;

O.D. CI	
	701/45: 701/49
Field of Search	280/735, 734;
I ICIG OI DOLLICE	
	180/272; 342/72, 70; 701/45, 49

[56] References Cited

## U.S. PATENT DOCUMENTS

5,071,160	12/1991	White et al	280/735
5,118,134	6/1992	Mattes et al	280/735

5,330,226	7/1994	Gentry et al	280/735		
5,398,185	3/1995	Omura	280/735		
5,413,378	5/1995	Steffens, Jr. et al	280/735		
5.446.661	8/1995	Gioutsos et al	280/735		
5,482,314		Corrado et al			
FOREIGN PATENT DOCUMENTS					
40 23 109	1/1992	Germany	280/734		
3-533	1/1991	Japan			
94/22693	10/1994	WIPO			

aminer-Peter C. English gent, or Firm-Samuel Shipkovitz

**ABSTRACT** 

on is a system to identify and monitor contents of the passenger compartment of a motor h as an automobile or truck, by processing the yed from the contents or parts using one or more including neural networks or other pattern recognition systems, and technologies including ultrasonic and electromagnetic radiation. The received signal may be a reflection of a transmitted signal, the reflection of some natural signal within the vehicle, or may be some signal emitted naturally by the object. Information obtained by the identification and monitoring system is then used to affect the operation of some other system in the vehicle such as the airbag, entertainment system, heating and air conditioning system, or the system to darken portions of the mirrors or windshield, among others.

25 Claims, 22 Drawing Sheets

